

## Message Text

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C O N F I D E N T I A L STATE 137657

E.O. 11652: GDS

TAGS: NATO, ETEL

SUBJECT: GUIDANCE FOR NJCEC MEETING, JULY 17-18, 1973

### I. NATO SATELLITE COMMUNICATIONS PROGRAM PHASE II

VERBAL REPORT BY DG NICSMA. YOU SHOULD AGREE TO RE-  
ACTIVATION OF NATO SATCOM II SATELLITE. (SEE STATE  
130658 AND 132440.)

### II. SATCOM CONTINGENCY PLANNING

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NOTE REPORT AND COMMENT AS APPROPRIATE.

### III. DIGITALIZATION IN NATO COMMUNICATION NETWORKS

NOTE VERBAL REPORT AND COMMENT AS APPROPRIATE. YOU

SHOULD MAKE FOLLOWING STATEMENTS RE SECURE VOICE.

UNCLASSIFIED STATEMENT ON RELEASE  
OF COMSEC INFORMATION

U.S. TELECOMMUNICATIONS PLANNING HAS FOR SEVERAL YEARS BEEN FOCUSING ON SECURE COMBAT COMMUNICATIONS WITH AN EMPHASIS ON TACTICAL SECURE VOICE. CURRENT U.S.

DEVELOPMENTS INCLUDE THE SAVILLE FAMILY OF SECURITY DEVICES FOR WIDE-BAND PUSH-TO-TALK TACTICAL NET RADIO AND THE SECURE, AUTOMATICALLY SWITCHED TACTICAL AREA SYSTEM DESIGNATED TRI-TAC. THERE HAVE BEEN DISCUSSIONS WITH NATO ALLIES ON STANDARDS TO BE OBSERVED IN THESE DEVELOPMENTS.

AT THE SAME TIME, NATO IS DEVELOPING REQUIREMENTS FOR TACTICAL SECURE VOICE AND IS ADDRESSING THE PROBLEM OF INTERFACING NATIONAL AREA SYSTEMS WITH EACH OTHER AND WITH NATO SYSTEMS. IT IS SELF-EVIDENT THAT STANDARDIZATION OF PARAMETERS IS REQUIRED IF THE NECESSARY DEGREE OF INTEROPERABILITY IS TO BE ACHIEVED WITHIN NATO.

IN ORDER TO FACILITATE INTEROPERABILITY, THE U.S. IS WILLING TO MAKE EQUIPMENTS AVAILABLE ON A PURCHASE BASIS TO NATO AND MEMBER COUNTRIES IN A THREE PHASED PROGRAM. ASSUMING INTEREST BY NATO AND MEMBER COUNTRIES, THE FIRST PHASE IS THE ISSUE TO NATO AUTHORITIES CONCERNED OF PERFORMANCE CHARACTERISTICS OF NET RADIOS INCLUDING BIT RATES, ANALOG TO DIGITAL CONVERSION, INPUT-OUTPUT LEVELS, SYNCHRONIZATION AND KEY DISTRIBUTION. THE SECOND PHASE WOULD BE A DEMONSTRATION OF THE EQUIPMENTS TO APPROPRIATE BODIES

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OF NATO IN 1974-1975. THE THIRD PHASE WOULD BE THE RELEASE OF THE EQUIPMENTS FOR PURCHASE BY NATO COUNTRIES IN 1977-78 WHEN THE EQUIPMENTS ARE EXPECTED TO BE IN OPERATIONAL USE BY THE U.S. FORCES. THE ESTABLISHED PROCEDURE OF LIMITING THE USE OF SUCH EQUIPMENT TO WITHIN NATO AND PROHIBITING RESALE WOULD APPLY.

AS IS WELL KNOWN TO NATO AND MEMBER COUNTRIES, THE U.S. AND THE UK HAVE MAINTAINED GOOD LIAISON BETWEEN THEIR TACTICAL COMMUNICATIONS DEVELOPMENTS CALLED, RESPECTIVELY, TRI-TAC AND PTARMIGAN. THE COMMUNICATIONS SECURITY EQUIPMENTS WHICH ARE THE SUBJECT OF THIS RELEASE ARE COMPATIBLE WITH THESE DEVELOPMENTS. BECAUSE OF THE MUTUAL COOPERATION OF THE UK AND THE US IN THIS FIELD, THE UK REP. MAY WISH TO

COMMENT.

CLASSIFIED STATEMENT ON DESCRIPTION OF  
U.S. DEVELOPMENTS IN THE SECURE VOICE  
COMMUNICATIONS FIELD (FOR RECORD ONLY)

THERE HAVE BEEN DEVELOPMENTS IN THE SECURE VOICE COMMUNICATIONS FIELD WHICH SUPPORT THE ACHIEVEMENT OF SECURE INTEROPERABILITY THROUGHOUT THE NATO COMMUNICATIONS STRUCTURE. THESE DEVELOPMENTS, WHICH ARE AT PRESENT MORE ADVANCED IN THE COMBAT NET RADIO FIELD, EMBODY COMMUNICATIONS AND CRYPTOGRAPHIC PRINCIPLES WHICH OPEN THE WAY TO SECURE COMMUNICATIONS OF ALL MODES IN COMBAT NET, TACTICAL AREA RADIO, AND FIXED-PLANT FACILITIES. THERE ARE NOW OPERATING MODELS OF A WIDE-BAND PUSH-TO-TALK COMBAT NET RADIO WHICH OPERATES AT 16 KBS AND EMPLOYS THE HIGHLY SATISFACTORY CVSD TECHNIQUE FOR CONVERTING ANALOG SPEECH TO DIGITAL FORM. THE CRYPTOGRAPHIC DEVELOPMENT TO SUPPORT THESE COMBAT NET RADIOS IS BASED ON THE MOST ADVANCED SECURITY PRINCIPLES, INCLUDING AN ENTIRELY NEW ELECTRONIC TECHNIQUE TO ACCOMPLISH KEY VARIABLE DISTRIBUTION, AND A SYSTEM FOR NET CONTROL WHICH PERMITS A VERY LARGE MEASURE OF FLEXIBILITY

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AMONG MEMBERS OF THE SAME NET. THESE CRYPTOGRAPHIC EQUIPMENTS, WHICH USE MICROMINIATURIZED CIRCUITRY, WILL BE AVAILABLE IN SEVERAL LIGHT-WEIGHT, COMPACT UNITS TO PERMIT USE AS APPLIQUE UNITS, PLUG-IN DEVICES, OR AS A PART OF A FULLY INTEGRATED SECURE RADIO FOR MAN-PACK USE. THERE IS NOW IN PRODUCTION THE INITIAL PILOT RUN TO BE USED IN OPERATIONAL SERVICE TESTS BY U.S. FORCES. THIS PILOT PRODUCTION IS EXPECTED TO BE AVAILABLE BY THE SUMMER OF 1974, AND SERVICE TESTS ARE SCHEDULED TO BE COMPLETED BY THE END OF 1974. IF, AS EXPECTED, THESE EQUIPMENTS MEET THE PERFORMANCE REQUIREMENTS OF U.S. TACTICAL FORCES, LARGE-SCALE PRODUCTION WILL BE UNDERTAKEN, AND THEY WOULD BE IN U.S. OPERATIONAL USE BY ABOUT 1977. IT IS INTENDED THAT THESE EQUIPMENTS WILL SERVE U.S. REQUIREMENTS FOR SECURE COMMUNICATIONS IN AIRCRAFT, VEHICULAR AND NAVAL DEPLOYMENTS. THEY WILL BE THE STANDARD U.S. EQUIPMENTS FOR THESE PURPOSES AND WILL BE PRODUCED IN LARGE QUANTITIES.

THE DESIGN OF THE COMMUNICATIONS EQUIPMENTS AND THE CRYPTOGRAPHIC SECURITY DEVICES HAS BEEN UNDERTAKEN AS A PART OF THE TOTAL U.S. SYSTEM FOR SECURE COMMUNICATIONS THROUGH ALL ECHELONS FROM THE INDIVIDUAL

SOLDIER, AS NEED BE, TO THE HIGHEST LEVELS OF COMMAND AND CONTROL. THE ENGINEERING AND CRYPTOGRAPHIC PRINCIPLES EMPLOYED ARE TRANSFERABLE TO OTHER MODES OF COMMUNICATIONS AND SUPPORT THE DEVELOPMENT OF EQUIPMENTS, SUCH AS THE TACTICAL AREA SWITCH, AND INTERFACE WITH FIXED-PLANT FACILITIES, SUCH AS THE U.S. DCS. THE AVAILABILITY OF THESE SECURE COMBAT NET RADIOS IS THE FIRST AND IMPORTANT STEP IN THE DEVELOPMENT OF THE TOTAL CONCEPT OF END-TO-END SECURE, INTEROPERABLE COMMUNICATIONS THAT COULD SERVE THE NEEDS OF U.S. FORCES AND THE NATO ALLIES.

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#### IV. NATO INTEGRATED COMMUNICATIONS SYSTEM

YOU SHOULD AGREE TO NOTE THE URGENCY OF ESTABLISHING COMMUNICATIONS REQUIREMENTS FOR CCIS IN CONFIGURATION A.

##### (A) VERBAL UPDATING BY DG NICSMA.

(I) NOTE AC/270-D/110, AND RECOMMEND THAT CIP 67 PROJECT BE IMPLEMENTED AS SOON AS POSSIBLE.

(II) PILOT SECURE VOICE PROJECT  
NOTE REPORT AND COMMENT AS APPROPRIATE.

(III) TARES  
NOTE REPORT AND COMMENT AS APPROPRIATE.

(IV) SATCOM PHASE III - SPACE SEGMENT  
NOTE REPORT AND COMMENT AS APPROPRIATE.

(V) CRYPTO EQUIPMENT FOR NICS  
NOTE NICSMA/HB(73)127.

##### (B) IMPLEMENTATION OF NICS NODAL CONCEPT

YOU SHOULD NOTE (OR AGREE) AS APPROPRIATE PARA 15 OF NICSMA-D/28 WITH THE FOLLOWING EXCEPTION: WITH REGARD TO SUBPARA. 15(B) YOU SHOULD REAFFIRM THAT A NODAL NETWORK AS DESCRIBED IN TR-86 REPRESENTS THE ULTIMATE NICS REQUIREMENT SUBJECT TO THE AGREED GENERAL GUIDANCE TO THE DG, NICSMA CONTAINED IN

PARA III (5) OF AC/270-DS/12. WITH RESPECT TO SUBPARA 15(F) AND (G), YOU SHOULD CONFIRM THAT THESE PARAGRAPHS DO NOT AUTHORIZE SOLE SOURCE

PROCUREMENT. THE PROCEDURE OF STATED PROGRAM  
CHARACTERISTICS FOLLOWED BY A SELECTION OF  
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OFF-THE-SHELF EQUIPMENT, IMPLIED BY NICSMA COM  
(73) 426, IS ACCEPTABLE TO US. YOU SHOULD NOTE  
AC/270-D/111.

(C) RATIO OF TRANSPORTABLE TO STATIC PHASE III  
GROUND TERMINALS

CONCUR IN THE RECOMMENDATIONS CONTAINED IN  
PARA 18 OF NICSMA D/27.

(D) REVIEW OF PROBLEMS ASSOCIATED WITH PROCUREMENT  
OF NICS FACILITIES

CONCUR IN RECOMMENDATIONS IN PARA 27 OF  
NICSMA D/29. YOU SHOULD COMMENT AS APPROPRIATE.

(E) CONCEPT FOR OPERATION, DIRECTION AND MANAGEMENT  
CONTROL FOR THE NICS

YOU SHOULD NOTE VERBAL REPORT, AND COMMENT  
AS APPROPRIATE. YOU SHOULD SUPPORT CONCEPT OF  
CENTRALIZED MANAGEMENT, AND DISCOURAGE  
DETAILED DISCUSSION WHILE NICSMA AND THE MNC'S  
ARE STILL NEGOTIATING THEIR DIFFERENCES.

(F) PRODUCTION-SHARING ARRANGEMENT FOR THE NICS

YOU SHOULD NOTE VERBAL REPORT, AND COMMENT AS  
APPROPRIATE.

#### V. NATIONAL USE OF NATO COMMUNICATIONS

NOTE VERBAL REPORT BY CHAIRMAN, JCEWG AND COMMENT AS  
APPROPRIATE. YOU SHOULD ALSO MAKE FOLLOWING STATE-  
MENT:

THE U.S. ENCOURAGES THE DEVELOPMENT OF "QUID  
PRO QUO" EXCHANGES OF COMMUNICATIONS CAPABILITIES  
BETWEEN NATO AND NATIONAL NETWORKS. FURTHER, THE  
U.S. BELIEVES THAT DG, NICSMA, IN THE CASE OF NICS,  
AND THE MNC'S, IN THE CASE OF NON-NICS COMMUNICATIONS  
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UNDER THEIR CONTROL, SHOULD HAVE AUTHORITY ON A  
  
CASE-BY-CASE BASIS TO NEGOTIATE AGREEMENTS FOR

EQUAL OR EQUIVALENT EXCHANGES, SUBJECT TO APPROVAL OR RATIFICATION BY THE APPROPRIATE NATO COMMITTEES. IT IS ENVISIONED THAT, AS EXPERIENCE IS GAINED, IT MIGHT BE POSSIBLE TO DEVELOP CRITERIA FOR ESTABLISHMENT OF SUCH AGREEMENTS WHICH WOULD PERMIT DELEGATION TO NEGOTIATING PARTIES OF RATIFICATION AUTHORITY FOR SPECIFIC TYPES OF "QUID PRO QUO" EXCHANGES.

VI. NATO COMMUNICATIONS POLICY

YOU SHOULD ACCEPT PARA. 3 OF ANNEX TO AC/270-D/73 (2ND REVISE) WITH FOLLOWING ADDITION: INSERT "FOR NICS PLANNING GUIDANCE ONLY" AFTER "POLICY" IN 3.(B), AND CHANGE "APPROVAL" TO "INFORMATION". YOU MAY APPROVE PARA. 3 WITHOUT CHANGE IF ALL OTHERS APPROVE. WE HAVE NO OBJECTION TO NORWEGIAN PROPOSAL.

VII. OTHER BUSINESS

IF CHAIRMAN REQUESTS VIEWS ON HOLDING NJCEC MEETINGS OUTSIDE BRUSSELS, YOU SHOULD AGREE TO HOLD NO MORE THAN ONE MEETING PER YEAR IN OTHER CAPITALS IF THIS IS DESIRE OF MAJORITY. RUSH

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